• Consider the diagram on the previous slide.
• What are some questions we could ask?
• How many lines? What is $4 \times 3$ in line math?
INTERSECTION MATH

• How many intersections are there?
• What is 4 “x” 3 in intersection math?
• Is intersection math commutative?
• What is 2034 “x” 825 in intersection math?
• What is m “x” n?
• How many rectangles can be formed from an $m \times n$ lattice assuming we are only counting rectangles that are vertical or horizontal?
DINNER PARTY MATH

• The product of two numbers in dinner party math is the number of combinations of four people. The four people must be two females and two males.
• What is \( m \times n \) in dinner party math if \( m \) is the number of males and \( n \) is the number of females?
RELATIONSHIPS AND EXTENSIONS

• Are there any similarities within intersection math, rectangle math, and dinner party math? If so, why? If not, why not?

• What other questions can we ask?